The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: _09/700,643_

Source: _PCT 09_

Date Processed by STIC: _1/11/2001_

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.
PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:
1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE
    APPLICANT, WITH A NOTICE TO COMPLY or,
2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A
    NOTICE TO COMPLY
FOR CRF SUBMISSION QUESTIONS, PLEASE CONTACT MARK SPENCER, 703-308-4212.

FOR SEQUENCE RULES INTERPRETATION, PLEASE CONTACT ROBERT WAX, 703-308-4216.
PATENTIN 2.1 e-mail help: patin21help@uspto.gov or phone 703-306-4119 (R. Wax)
PATENTIN 3.0 e-mail help: patin30help@uspto.gov or phone 703-306-4119 (R. Wax)

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE CHECKER
VERSION 3.0 PROGRAM, ACCESSIBLE THROUGH THE U.S. PATENT AND
TRADEMARK OFFICE WEBSITE. SEE BELOW:

Checker Version 3.0

The Checker Version 3.0 application is a state-of the-art Windows based software program
employing a logical and intuitive user-interface to check whether a sequence listing is in
compliance with format and content rules. Checker Version 3.0 works for sequence listings
generated for the original version of 37 CFR §§1.821 – 1.825 effective October 1, 1990 (old
rules) and the revised version (new rules) effective July 1, 1998 as well as World Intellectual
Property Organization (WIPO) Standard ST.25.
Checker Version 3.0 replaces the previous DOS-based version of Checker, and is Y2K-
compliant. Checker allows public users to check sequence listings in Computer Readable form
(CRF) before submitting them to the United States Patent and Trademark Office (USPTO).
Use of Checker prior to filing the sequence listing is expected to result in fewer errored sequence
listings, thus saving time and money.

Checker Version 3.0 can be down loaded from the USPTO website at the following address:
http://www.uspto.gov/web/offices/pac/checker

PCT09

av <110> once

o not sent <110>

```
     RAW SEQUENCE LISTING              DATE: 01/11/2001
     PATENT APPLICATION: US/09/700,643    TIME: 17:18:11

       Input Set : A:\2523.sequencelist.txt
       Output Set: H:\CRF3\01112001\I700643.raw
```

Does Not Comply
Corrected Diskette Need

```
  5 <110> APPLICANT: Matsumoto, Hirokazu
W--> 7 <110> APPLICANT: Kitada, Chieko
W--> 9 <110> APPLICANT: Hinuma, Shuji
 11 <120> TITLE OF INVENTION: ANTIBODY AND USE THEREOF
 13 <130> FILE REFERENCE: 2523USOP
C--> 15 <140> CURRENT APPLICATION NUMBER: US/09/700,643
C--> 15 <141> CURRENT FILING DATE: 2000-11-16
 15 <150> PRIOR APPLICATION NUMBER: PCT/JP99/02650
W--> 17 <150> PRIOR APPLICATION NUMBER: 1999-05-20
 19 <150> PRIOR APPLICATION NUMBER: JP 10-140293
 21 <151> PRIOR FILING DATE: 1998-5-21
 23 <160> NUMBER OF SEQ ID NOS: 73
 27 <210> SEQ ID NO: 1
 29 <211> LENGTH: 31
 31 <212> TYPE: PRT
 33 <213> ORGANISM: Bovine
 35 <223> OTHER INFORMATION: Xaa means Phe-NH2
 37 <400> SEQUENCE: 1
 39 Ser Arg Ala His Gln His Ser Met Glu Ile Arg Thr Pro Asp Ile Asn
 40                    5                   10                  15
 42 Pro Ala Trp Tyr Ala Gly Arg Gly Ile Arg Pro Val Gly Arg Xaa
 43                20                  25                  30
 46 <210> SEQ ID NO: 2
 48 <211> LENGTH: 31
 50 <212> TYPE: PRT
 52 <213> ORGANISM: Human
 54 <223> OTHER INFORMATION: Xaa means Phe-NH2
 56 <400> SEQUENCE: 2
 58 Ser Arg Thr His Arg His Ser Met Glu Ile Arg Thr Pro Asp Ile Asn
 59                    5                   10                  15
 61 Pro Ala Trp Tyr Ala Ser Arg Gly Ile Arg Pro Val Gly Arg Xaa
 62                20                  25                  30
 65 <210> SEQ ID NO: 3
 67 <211> LENGTH: 31
 69 <212> TYPE: PRT
 71 <213> ORGANISM: Rat
 73 <223> OTHER INFORMATION: Xaa means Phe-NH2
 75 <400> SEQUENCE: 3
 77 Ser Arg Ala His Glu His Ser Met Glu Thr Arg Thr Pro Asp Ile Asn
 78                    5                   10                  15
 80 Pro Ala Trp Tyr Thr Gly Arg Gly Ile Arg Pro Val Gly Arg Xaa
 81                20                  25                  30
 84 <210> SEQ ID NO: 4
 86 <211> LENGTH: 15
 88 <212> TYPE: PRT
 90 <213> ORGANISM: Human
 92 <223> OTHER INFORMATION: Xaa means Phe-NH2
```

use <151> for PRIOR FILING DATE

Per 1.823 of new sequence Rules, <220> insert this mandatory numeric identifier whenever <221>, <222>, or <223> is shown (global error)

insert <220>

insert <220>

insert <220>

RAW SEQUENCE LISTING   DATE: 01/11/2001
PATENT APPLICATION: US/09/700,643   TIME: 17:18:11

Input Set : A:\2523.sequencelist.txt
Output Set: N:\CRF3\01112001\I700643.raw

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94  <400> SEQUENCE: 4
96  Pro Ala Trp Tyr Ala Ser Arg Gly Ile Arg Pro Val Gly Arg Xaa
97                    5                   10                  15
100 <210> SEQ ID NO: 5
102 <211> LENGTH: 20
104 <212> TYPE: PRT
106 <213> ORGANISM: Human
108 <223> OTHER INFORMATION: Xaa means Phe-NH2
110 <400> SEQUENCE: 5
112 Thr Pro Asp Ile Asn Pro Ala Trp Tyr Ala Ser Arg Gly Ile Arg Pro
113                    5                   10                  15
115 Val Gly Arg Xaa
116                  20
119 <210> SEQ ID NO: 6
121 <211> LENGTH: 15
123 <212> TYPE: PRT
125 <213> ORGANISM: Human
127 <223> OTHER INFORMATION: Xaa on the 1st position means Ac-Pro, Xaa on the 4th position means Tyr(Ac),
and Xaa on the 15th position means Phe-NH2
129 <400> SEQUENCE: 6
131 Xaa Ala Trp Xaa Ala Ser Arg Gly Ile Arg Pro Val Gly Arg Xaa
132                    5                   10                  15
135 <210> SEQ ID NO: 7
137 <211> LENGTH: 15
139 <212> TYPE: PRT
141 <213> ORGANISM: Human
143 <223> OTHER INFORMATION: Xaa means Phe-NH2
145 <400> SEQUENCE: 7
147 Cys Ala Trp Tyr Ala Ser Arg Gly Ile Arg Pro Val Gly Arg Xaa
148                    5                   10                  15
151 <210> SEQ ID NO: 8
153 <211> LENGTH: 33
155 <212> TYPE: PRT
157 <213> ORGANISM: Bovine
159 <400> SEQUENCE: 8
161 Ser Arg Ala His Gln His Ser Met Glu Ile Arg Thr Pro Asp Ile Asn
162                    5                   10                  15
164 Pro Ala Trp Tyr Ala Gly Arg Gly Ile Arg Pro Val Gly Arg Phe Gly
165                  20                  25                  30
167 Arg
170 <210> SEQ ID NO: 9
172 <211> LENGTH: 31
174 <212> TYPE: PRT
176 <213> ORGANISM: Human
178 <223> OTHER INFORMATION: Xaa means Phe-NH2
180 <400> SEQUENCE: 9
182 Ser Arg Ala His Gln His Ser Met Glu Ile Arg Thr Pro Asp Ile Asn
183                    5                   10                  15
185 Pro Ala Trp Tyr Ala Gly Arg Gly Ile Arg Pro Val Gly Arg Phe
186                  20                  25                  30
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insert <220>

insert <220>

insert <220>

<220>

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189 <210> SEQ ID NO: 10
191 <211> LENGTH: 30
193 <212> TYPE: PRT                          L2207
195 <213> ORGANISM: Human
197 <223> OTHER INFORMATION: Xaa means Arg-NH2
199 <400> SEQUENCE: 10
201 Ser Arg Thr His Arg His Ser Met Glu Ile Arg Thr Pro Asp Ile Asn
202                 5                   10                  15
204 Pro Ala Trp Tyr Ala Ser Arg Gly Ile Arg Pro Val Gly Xaa
205                 20                  25                  30
208 <210> SEQ ID NO: 11
210 <211> LENGTH: 14
212 <212> TYPE: PRT                          L2207
214 <213> ORGANISM: Human
216 <223> OTHER INFORMATION: Xaa means Cys-NH2
218 <400> SEQUENCE: 11
220 Thr Pro Asp Ile Asn Pro Ala Trp Tyr Ala Ser Arg Gly Xaa
221                 5                   10
224 <210> SEQ ID NO: 12
226 <211> LENGTH: 20
228 <212> TYPE: PRT                          L2207
230 <213> ORGANISM: Bovine
232 <223> OTHER INFORMATION: Xaa means Phe-NH2
234 <400> SEQUENCE: 12
236 Thr Pro Asp Ile Asn Pro Ala Trp Tyr Ala Gly Arg Gly Ile Arg Pro
237                 5                   10                  15
239 Val Gly Arg Xaa
240                 20
243 <210> SEQ ID NO: 13
245 <211> LENGTH: 20
247 <212> TYPE: PRT                          L2207
249 <213> ORGANISM: Rat
251 <223> OTHER INFORMATION: Xaa means Phe-NH2
253 <400> SEQUENCE: 13
255 Thr Pro Asp Ile Asn Pro Ala Trp Tyr Thr Gly Arg Gly Ile Arg Pro
256                 5                   10                  15
258 Val Gly Arg Xaa
259                 20
```

```
VERIFICATION SUMMARY                    DATE: 01/11/2001
PATENT APPLICATION:  US/09/700,643      TIME: 17:18:12

Input Set : A:\2523.sequencelist.txt
Output Set: N:\CRF3\01112001\I700643.raw

L:7  M:280 W: Numeric Identifier already exists, <110> found multiple times
L:9  M:280 W: Numeric Identifier already exists, <110> found multiple times
L:15 M:270 C: Current Application Number differs, Replaced Current Application No
L:15 M:271 C: Current Filing Date differs, Replaced Current Filing Date
L:17 M:289 W: Numeric Identifier Missing or Out-Of-Order, <150> PRIOR APP FILING DATE
L:19 M:289 W: Numeric Identifier Missing or Out-Of-Order, <150> PRIOR APP FILING DATE
L:21 M:256 W: Invalid Numeric Header Field, Wrong Prior FILING DATE:YYYY-MM-DD
L:42 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:1
L:42 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:1
L:42 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:1
L:42 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:1
L:61 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:2
L:61 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:2
L:61 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:2
L:61 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:2
L:80 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:3
L:80 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:3
L:80 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:3
L:80 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:3
L:96 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:4
L:96 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:4
L:96 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:4
L:96 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:4
L:115 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:5
L:115 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:5
L:115 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:5
L:115 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:5
L:131 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:6
L:131 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:6
L:131 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:6
L:131 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:6
L:147 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:7
L:147 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:7
L:147 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:7
L:147 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:7
L:204 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:10
L:204 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:10
L:204 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:10
L:204 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:10
L:220 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:11
L:220 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:11
L:220 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:11
L:220 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:11
L:239 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:12
L:239 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:12
L:239 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:12
L:239 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:12
L:258 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:13
```

VERIFICATION SUMMARY
PATENT APPLICATION: US/09/700,643

DATE: 01/11/2001
TIME: 17:18:12

Input Set : A:\2523.sequencelist.txt
Output Set: N:\CRF3\01112001\I700643.raw

L:258 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:13
L:258 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:13
L:258 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:13